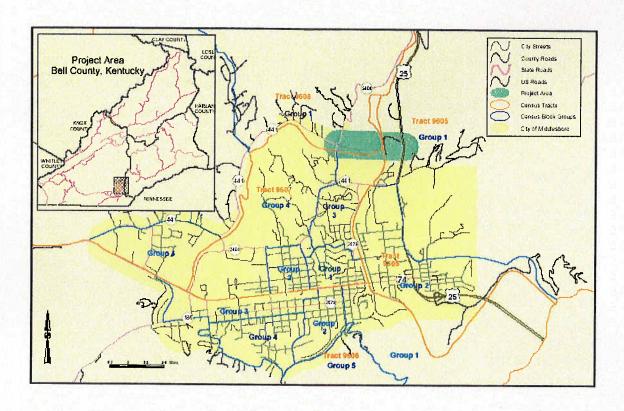
# APPENDIX D

Environmental Justice & Community Impacts Report

# Proposed KY 441 – Middlesboro Pre-Design Scoping Study Bell County, Kentucky

Six-Year Plan Item No. 11-110.00



# **Environmental Justice & Community Impact Report**

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Clay McKnight, Transportation Planner

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#### I. INTRODUCTION

The following Environmental Justice report is an assessment of community demographics and characteristics related to a defined study area for the proposed construction of a new route from KY 441 to US 25E in Middlesboro. The project is listed as item number 11-110.00 in the Kentucky Transportation Cabinet's 2003-2008 Approved Six-Year Highway Plan and scheduled for design in 2005.

The study area is composed primarily of undeveloped land with a limited number of commercial entities located near US 25E, and a few residential structures located adjacent to KY 3486. Statistical data from the U.S. Census Bureau's 2000 Census is provided to display population by race, population by age, and population below poverty level by age, for the United States, Kentucky, Bell County, Middlesboro, and Census Tracts and Block Groups located in and around the study area.

Resources used during the compilation of this report include, but are not limited to, the following: the U.S. Census Bureau, Kentucky State Data Center, Kentucky Transportation Cabinet, local elected officials, community leaders, and field observations of the study area. The information and results included herein are intended to assist the Kentucky Transportation Cabinet in making informed and prudent transportation decisions with respect to the study area, particularly with regard to the requirements of Executive Order 12898<sup>1</sup>, to ensure equal environmental protection to all groups potentially impacted by this project.

## II. WHAT IS ENVIRONMENTAL JUSTICE?

The U.S. EPA Office of Environmental Justice (EJ) defines EJ as:

"The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies. Fair treatment means that no group of people, including racial, ethnic, or socio-economic group should bear a disproportionate share of the negative environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local and tribal programs and policies."

A disproportionately high and adverse effect on a minority or low-income population means an adverse effect that:

1. is predominately borne by a minority population and/or low-income population, or

<sup>&</sup>lt;sup>1</sup> Executive Order 12898 signed on February 11, 1994 states "...each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations..."

2. will be suffered by the minority population and/or low-income population and is appreciably more severe or greater in magnitude than the adverse effect that will be suffered by the non-minority population and/or non-low-income population.

#### III. DEFINITIONS

USDOT Order 5610.2 on EJ, issued in the April 15, 1997 Federal Register defines what constitutes low income and minority populations.

- Low-Income is defined as a person whose median household income is at or below the U.S. Department of Health and Human Services poverty guidelines.
- Minority is defined as a person who is: (1) Black (a person having origins in any black racial groups of Africa); (2) Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race); (3) Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); or (4) American Indian and Alaskan Native (a person having origins in any of the original people of North America and who maintains cultural identification through tribal affiliation or community recognition).
- Low-Income Population is defined as any readily identifiable group of low-income persons who live in geographic proximity, and, if circumstances warrant geographically dispersed/transient persons who will be similarly affected by a proposed DOT program, policy or activity.
- Minority Population is defined as any readily identifiable group of minority persons who live in geographic proximity, and if circumstances warrant, geographically dispersed/transient persons who will be similarly affected by a proposed DOT program, policy or activity.

EO 12898 and USDOT Order 5610.2 do not address consideration of the elderly population. However, the U.S. DOT encourages the study of these populations in EJ discussions and in accordance with EJ, Title VI of the Civil Rights Act of 1964 and the Kentucky Transportation Cabinet's advocacy of inclusive public involvement and equal treatment of all persons this report includes statistics for persons age 62 and over that are within the study and comparison areas.

## IV. METHODOLOGY

For this study, data was collected by using the method outlined by the KYTC document, "Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies" (see Appendix 2).

The primary sources of data used in the compilation of this report were the United States Census Bureau's 2000 Census, the Kentucky State Data Center, local elected officials,

community leaders, and field observations. Statistics were collected to present a detailed analysis of the community conditions for the study area.

### V. CENSUS DATA ANALYSIS

The U.S. Census Bureau defines geographical units as:

- Census Tract (CT) "A small, relatively permanent statistical subdivision of a county or statistically equivalent entity delineated for data presentation purposes by a local group of census data users or the geographic staff of a regional census center in accordance with Census Bureau guidelines. CTs generally contain between 1,000 and 8,000 people. CT boundaries are delineated with the intention of being stable over many decades, so they generally follow relatively permanent visible features. They may also follow governmental unit boundaries and other invisible features in some instances; the boundary of a state or county is always a census tract boundary."
- Block Group (BG) "A statistical subdivision of a CT. A BG consists of all tabulation blocks whose numbers begin with the same digit in a CT. BGs generally contain between 300 and 3,000 people, with an optimum size of 1,500 people."
- Census Block (CB) "An area bounded on all sides by visible and/or invisible features shown on a map prepared by the Census Bureau. A CB is the smallest geographic entity for which the Census Bureau tabulates decennial census data."

The study and comparison area analysis includes percentages for minority, low-income and elderly populations in the United States, Kentucky, Bell County, Middlesboro, and Census Tracts and Block Groups located in and around the study area.

#### VI. STUDY FINDINGS

This Environmental Justice and Community Impact Report is to be used as a component of a pre-design scoping study currently being conducted by the Kentucky Transportation Cabinet's Division of Planning for the proposed construction of a new route from KY 441 to US 25E in Middlesboro (Six-Year Plan Item No. 11-110.00). This study is intended to help define the location and purpose of the project and meet federal requirements regarding consideration of environmental issues as defined in the National Environmental Policy Act (NEPA).

According to the 2000 Census, there are ten (10) Census Tracts and twenty-eight (28) Block Groups that encompass the population of Bell County. Figure 1 presents the population totals for each of these Census divisions. Accompanying Figure 1 in this report are two maps, the first of which displays each Census Tract and Block Group in Bell County (Figure 2), while the second map displays the Census divisions located in and around the study area (Figure 3).

Evaluation of the study area consisted of compiling and analyzing Census data for three (3) Tracts and four (4) Block Groups within those Tracts directly intersected by the study area. These Census divisions are as follows:

- Tract 9605 Block Group 1
- Tract 9607 Block Groups 3 & 4
- Tract 9608 Block Group 1

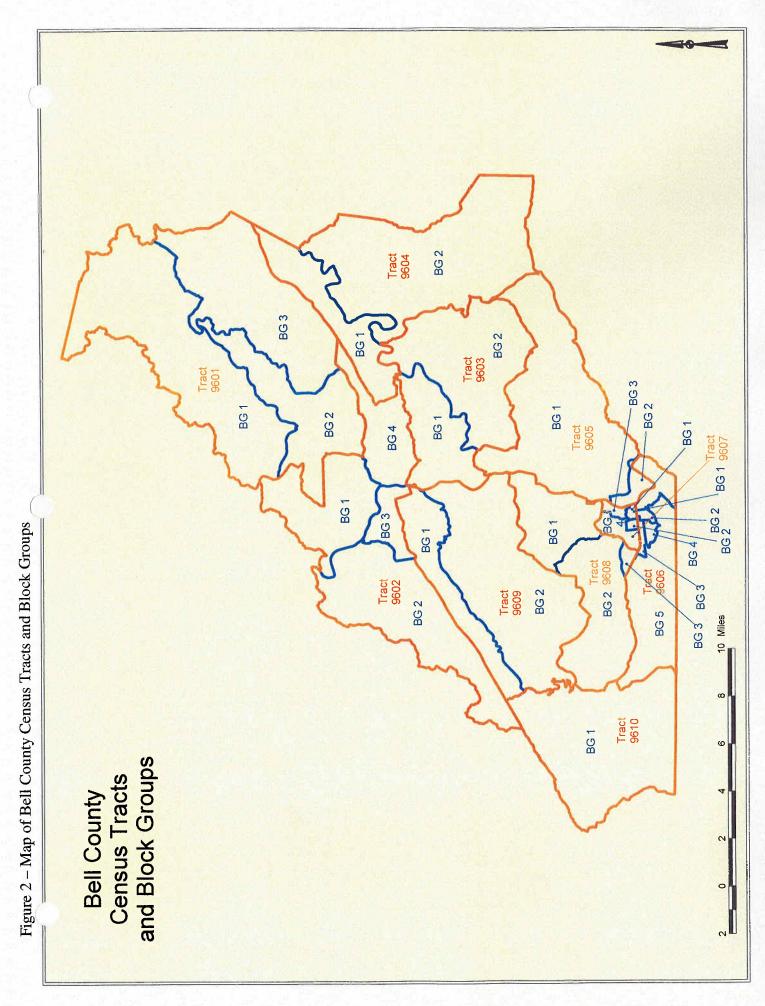
Comparative data from five (5) Tracts and eight (8) Block Groups was collected for areas surrounding the study area, but having no direct intersection or inclusion in the area. This data includes the following Census divisions:

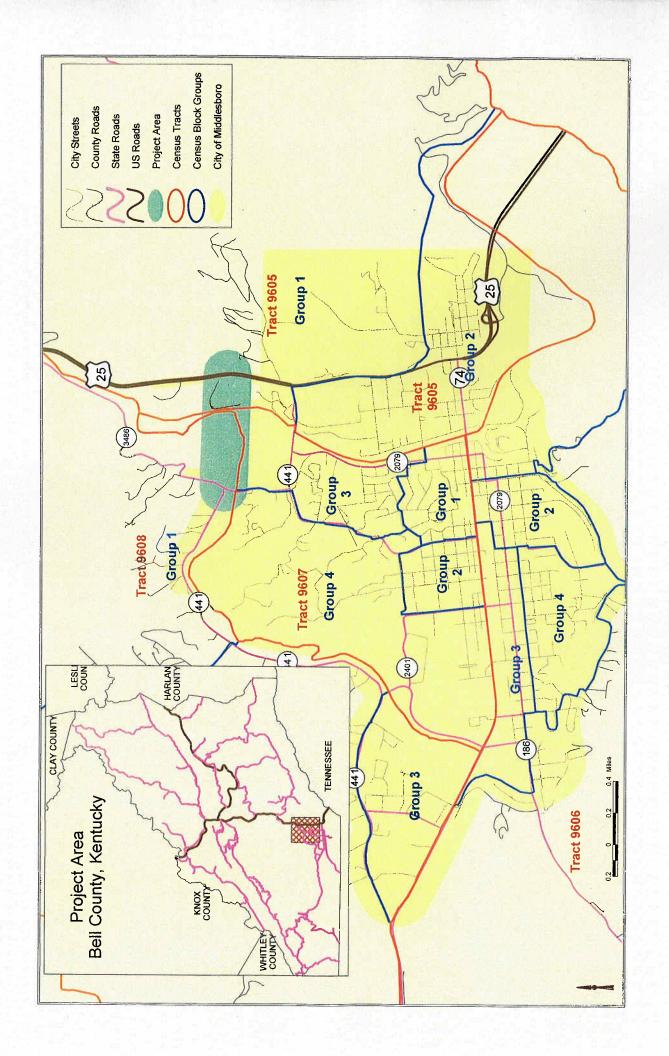
- Tract 9603 Block Groups 1 & 2
- Tract 9605 Block Group 2
- Tract 9607 Block Groups 1 & 2
- Tract 9608 Block Groups 2 & 3
- Tract 9609 Block Group 2

Figure 1 - Bell County Census 2000 Population Totals

| <b>Total Population:</b>     |   | 30,060 |
|------------------------------|---|--------|
| Census Tract 9601            |   | 2,866  |
| Block Group 1                |   | 764    |
| Block Group 2                |   | 1,181  |
| Block Group 3                |   | 921    |
| Census Tract 9602            |   | 5,723  |
| Block Group 1                |   | 1,292  |
| Block Group 2                |   | 1,526  |
| Block Group 3                |   | 1,225  |
| Block Group 4                |   | 1,680  |
| Census Tract 9603            |   | 2,404  |
| Block Group 1                |   | 1,582  |
| Block Group 2                |   | 822    |
| Census Tract 9604            |   | 1,899  |
| Block Group 1                |   | 871    |
| Block Group 2                |   | 1,028  |
| Census Tract 9605            |   | 2,428  |
| Block Group 1                |   | 1,535  |
| Block Group 2                |   | 893    |
| Census Tract 9606            |   | 4,874  |
| Block Group 1                |   | 548    |
| Block Group 2                |   | 879    |
| Block Group 3                |   | 1,002  |
| Block Group 4                |   | 946    |
| Block Group 5                |   | 1,499  |
| Census Tract 9607            |   | 2,974  |
| Block Group 1                | 3 | 584    |
| Block Group 2                |   | 634    |
| Block Group 3                |   | 654    |
| Block Group 4                |   | 1,102  |
| Census Tract 9608            |   | 2 545  |
| Block Group 1                |   | 3,745  |
| Block Group 1  Block Group 2 |   | 1,190  |
| Block Group 3                |   | 1,530  |
| Prock Otoub 2                |   | 1,025  |

| Census Tract 9609 | 2,167 |
|-------------------|-------|
| Block Group 1     | 705   |
| Block Group 2     | 1,462 |
| Census Tract 9610 | 980   |
| Block Group 1     | 980   |





#### A. Population by Race

Figure 4 illustrates that a majority of the Census Tracts and Block Groups that directly intersect and surround the study area contain a population that is not significantly diverse when compared to national and state statistics for population by race. Percentages for White individuals in and around the study area typically exceed the state and national averages, which in turn result in the percentage of minority population being considerably less than state and national averages.

A couple of exceptions to the preceding discussion are Block Groups 3 and 4 in Census Tract 9607. Block Group 3 in this Tract encompasses a significant percentage (15.4%) of Black individuals, while Block Group 4 contains a percentage of Asian population (1.7%) that exceeds the state average. A comprehensive review of Census Block data and meetings with local officials resulted in the determination that the minority population in these Block Groups was not located within the study area for the proposed project. Figure 5 displays the population by race data for the sixteen (16) Census Blocks that are located within the defined study area boundary, which indicate that minority concentrations do not exist in the study area.

Discussions with local elected officials and community members has led to the conclusion that concentrations of minorities are not located in and/or surrounding the study area; therefore, it is anticipated that the implementation of this project would not have a disproportionate impact on minorities. CVADD Staff will continue to monitor racial composition in the study area and report any changes and/or developments that may occur in the future that could alter the findings of this report.

Figure 4 - Population by Race

| %         34,658,190         12,3%         2,475,956         0,9%         10,242,998         3.6%         36,305,818           %         295,994         7,3%         8,616         0,2%         29,744         0,7%         59,939           %         720         2,4%         75         0,2%         105         0,6%         194           %         43         75         0,2%         11         0,5%         22           %         43         1,8%         6         0,2%         11         0,5%         22           %         101         1,8%         6         0,2%         37         1,2%         29           %         101         1,5%         3         0,4%         37         1,2%         29           %         101         0,0%         7         0,3%         37         1,2%         29           %         10         0,0%         7         0,3%         30         0,0%         4           %         10         0,0%         7         0,3%         30         0,0%         4           %         1         0,0%         7         0,3%         30         30         4   |                                       | White  | % of<br>Population       | Black  | % of<br>Population        | Indian                                   | % of<br>Population                        | Asian       | % of<br>Population                                   | Hispanic <sup>1</sup>  | % of<br>Population                     | Other      | % of<br>Population                          | Population   |
|--|---------------------------------------|--|--------------------------|--|---------------------------|--|---|-------------|--|--|--|------------|---|--|
| 3 640 689         90 1%         2 92 984         73%         6 16         0.2%         29 74         0.0%         59 989         15%         6 8.20         1 0%         4 04           2 8 684         90 0         4.9%         73         0.2%         10         0.3%         194         0.6%         15%         10         1.3%         1           2 341         9 641         9.2%         4.0         0.2%         11         0.5%         12         0.6%         20         10         1.3%         1           2 341         9.6 4%         4.0         4.0         0.6%         1         0.6%         2         0.6%         1 <td< td=""><td>United States</td><td>211,460,626</td><td></td><td>34,658,190</td><td>12.3%</td><td>la</td><td>%6.0</td><td>10,242,998</td><td></td><td></td><td>12.5%</td><td></td><td></td><td></td></td<>  | United States                         | 211,460,626  |                          | 34,658,190   | 12.3%                     | la                                       | %6.0                                      | 10,242,998  |  |  | 12.5%                                  |            |   |  |
| 28 684         96 0%         720         24%         75         0.2%         105         0.5%         194         0.6%         296         10%         3           9,641         96 0%         500         4.9%         39         0.4%         66         0.6%         120         0.6%         130         1.0%         1           1,472         96 4%         4.9%         30         0.2%         1         0.6%         20         0.6%         1         1.1%         1           2,712         91 2%         4.0         4.9%         3         0.2%         1         0.6%         2         0.6%         1         1.1%         1         1.1%         1         1.1%         1         1.1%         1         1.1%         1         1.1%         1         1.1%         1.1%         1         1.1%         1   | Kentucky                              | 3.640,899  |                          |  | 7.3%                      |  |   | 29,744      |  |  | 1.5%                                   | 99         |   | 4,041,769  |
| 9641         92.8%         509         4.9%         39         0.4%         65         0.6%         62         0.8%         130         13%  | Bell County                           | 28.864   |                          |  | 2.4%                      |  | 0.5%                                      |             |  |  | %9.0                                   |            |   | 30,060   |
| 2,341         96,4%         42         1,6%         6         0,2%         11         0,5%         22         0,9%         17         1,1%           1,472         95,9%         36         2,3%         1         0,1%         9         0,6%         10         0,7%         17         1,1%           541         97,8         170         5,7%         13         0,4%         37         1,2%         2         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,4%         1         1,2%         1         1,4%   | Middlesboro                           | 9,641  |                          |  | 4.9%                      | 3  | 0.4%                                      |             |  |  | %8'0                                   |            |   | G .  |
| 1,472         95.9%         36         2.3%         1         0.1%         9         0.6%         10         0.7%         17         11%           2,712         91.2%         10.2%         29         1.0%         42         1.4%         1.2%         1.0%         42         1.4%           541         82.7%         10         1.5%         3         0.5%         1         0.2%         2         0.3%         6         1.2%  | Tract 9605                            | 9 341  |                          |  | 1 8%                      |  | 0.2%                                      | 1.1         | 0.5%   |  | %6.0                                   |            | 1.1%  | 2,428  |
| 2,712         91.2%         11.0%         12.0% <th< td=""><td>Block Group 1</td><td>1,472</td><td></td><td></td><td>2.3%</td><td></td><td>0.1%</td><td></td><td></td><td></td><td>0.7%</td><td></td><td></td><td>1,535</td></th<>   | Block Group 1                         | 1,472  |                          |  | 2.3%                      |  | 0.1%                                      |             |  |  | 0.7%                                   |            |   | 1,535  |
| 2,712         91,2%         170         5,7%         13         0,4%         37         1,2%         29         10%         42         14%         12%         12%         14%         12%         14%         12%         14%         12%         14%<  |                                       |  |                          |  |                           |  |   |             |  |  |  |            |   |  |
| 541         82.7%         10         15.4%         3         0.5%         1         0.2%         2         0.3%         8         1.2%         1  | Tract 9607                            | 2,712  |                          |  |                           |  | 0.4%                                      |             |  |  | 1.0%                                   |            | 1   | 2,974  |
| 1,052         96.6%         13         1.2%         0         0.0%         19         1.7%         9         0.8%         17         1.5%           301         96.6%         13         1.7%         9         0.0%         1.2%         1.7%         1.5%         1.7%         1.5%         1.1%         1.1%         1.2%         1.1%   | Block Group 3                         |  |                          | 101  | 15.4%                     |  | %9'0                                      | -           | 0.2%   |  | 0.3%                                   |            |   | 654  |
| 3.011         96.1%         89         2.8%         6         0.2%         2         0.1%         38         1.2%         24         0.8%           1,158         97.3%         9         2.8%         6         0.2%         1         1         1         2         4         0.8%           1,158         98.4%         1         0.0%         7         0.3%         0         0.0%         8         1         2         0.4%           1,152         98.1%         0         0.0%         7         0.3%         0         0.0%         4         0.1%         3         1.3%           1,152         98.1%         0         0.0%         7         0.4%         0         0.0%         4         0.1%         3         1.5%         1.5%         1.5%         1.5%         1.1%         1.5%         1.1%         1.5%         1.1%         1.5%         1.1%         1.5%         1.1%         1.1%         1.5%         1.1%         1.5%         1.1%         1.1%         1.5%         1.1%         1.1%         1.1%         1.5%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%         1.1%   | Block Group 4                         |  |                          |  | 1.2%                      |  | %0.0                                      |             |  |  | %8.0                                   | 17         | 1.5%  | 1,102  |
| 3,011         96,1%         99         2,8%         6         0,2%         2         0,1%         38         1,2%         24         0,8%           1,158         97,3%         8         0,7%         6         0,5%         13         1,1%         11         0,9%         5         0,4%           1,158         97,3%         1         0,0%         7         0,4%         0         0,0%         4         0,5%         31         1,3%           1,552         98,4%         1         0,0%         7         0,4%         0         0,0%         4         0,5%         31         1,5%           1,31         98,9%         1         0,0%         7         0,4%         0         0,0%         4         0,5%         31         1,5%           2,34         98,9%         4         0,1%         0         0,0%         4         0,5%         4         0,5%         31         1,5%           86.9         97,3%         7         0,3%         5         0,5%         1         0,5%         1         1,5%         1,4%         1,4%           86.9         97,3%         7         0,5%         2         0,2%         <   |                                       |  |                          |  |                           |  |   |             |  |  |  |            |   |  |
| 1,158         97.3%         8         0.7%         6         0.5%         13         1.1%         11         0.9%         5         0.4%           2,336         98.4%         1         0.0%         7         0.3%         0         0.0%         6         0.0%         7         0.3%         0         0.0%         8         0.2%         15%  | Tract 9608                            | 3,011  |                          |  | 2.8%                      |  | 0.2%                                      |             |  |  | 1.2%                                   |            |   | 3,132  |
| 2,365         98.4%         1         0.0%         7         0.3%         0         0.0%         2         0.1%         23         1.5%           1,552         98.4%         0         0.0%         7         0.4%         0         0.0%         4         0.5%         23         1.5%           813         98.4%         0         0.0%         7         0.4%         0         0.0%         4         0.5%         8         1.0%           2,341         98.9%         1         0.1%         0         0.0%         7         0.0%         7         1.0%         1.1%         1.0%         8         1.0%         1.0%         1.1%         1.0%         8         1.0%         1.1%         1.2%         1.1%         1.2%         1.1%         1.2%         1.1%         <   | Block Group 1                         | 1,158  |                          |  | 0.7%                      |  | 0.5%                                      |             |  | 1  | %6.0                                   | 10 Sept. 1 |   | 1,190  |
| 2,365         98,4%         1         0,0%         7         0,3%         0         0,0%         5         0,2%         31         1,3%           1,552         98,4%         1         0,0%         7         0,4%         0         0,0%         4         0,1%         2         1,3%           1,552         98,4%         4         0,0%         0         0,0%         4         0,0%         8         1,0%           2,341         98,9%         43         1,6%         6         0,2%         11         0,5%         7         1,1%         1,1%           86         97,3%         43         1,6%         7         0,6%         7         1,2%         1,2%         1,1%         <   |                                       |  |                          |  |                           |  |   |             |  |  | 2                                      |            |   | Constitution of the Consti |
| 1,552         98.1%         C         0.0%         7         0.4%         0         0.0%         7         0.4%         0         0.0%         2         0.1%         23         1.5%           813         98.5%         1         0.0%         0.0%         0.0%         0.0%         4         0.5%         8         1.0%           2.341         96.4%         43         1.8%         6         0.2%         11         0.5%         22         0.9%         27         7         1.1%         1.0%           669         97.3%         7         0.8%         6         0.6%         7         2         0.2%         12         1.0%         27         1.1%         <   | Tract 9603                            | 2,365  | 1000000                  | 1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の  | %0.0                      | 7  | 0.3%                                      | 一年 日本       | · · · · · · · · · · · · · · · · · · ·                |  |  |            | のできる。                                       | A  |
| 813         98.9%         1         0.1%         0.0%         0.0%         4         0.05%         8         1.0%         1.0%           2,341         96.4%         43         1.8%         6         0.2%         11         0.5%         22         0.9%         27         1.1%         1.0%           869         97.3%         7         0.8%         5         0.6%         1         2.2%         0.9%         1.1%  | Block Group 1                         | 1,552  | 1                        |  | %0.0                      | 7 30                                     | 0.4%                                      |             |  |  | Section 1                              |            |   | 1,582  |
| 2,341         96.4%         43         1.8%         6         0.2%         11         0.5%         22         0.9%         27         1.1%         1.1%           869         97.3%         7         0.8%         6         0.6%         2         0.2%         12         0.9%         27         1.1%         1.   | Block Group 2                         | 1.   |                          |  | 0.1%                      | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | %0.0                                      |             |  | 4  | 0.5%                                   | i a        |   | 822  |
| 2,341         96.4%         43         1.8%         6         0.2%         11         0.5%         22         0.9%         27         1.1% <td></td> <td>大学 は 日本 日本</td> <td>20年間の日間に対する。</td> <td>日本の 地域 日日日東</td> <td></td> <td>1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>(A) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>                                     </td> <td>神事 こういきょうべつ</td> <td>The State of the S</td> <td>発力が こうしゅうかある</td> <td></td> <td>公司 日本日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本</td> <td>MASSAGE STATES</td> |                                       | 大学 は 日本  | 20年間の日間に対する。             | 日本の 地域 日日日東  |                           | 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | (A) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |             | 神事 こういきょうべつ  | The State of the S | 発力が こうしゅうかある                           |            | 公司 日本日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本 | MASSAGE STATES   |
| 869         97.3%         7         0.8%         5         0.6%         2         0.2%         12         1.13%         1.1%   | Tract 9605                            | 2,341  |                          | THE SHEET STATE  | 1.8%                      |  | 0.2%                                      | 11 200 2011 | 0.5%   | 1 - 1 WAS - 18   | <b>%6</b> :0                           |            | 1.1%  | る意   |
| 2,712         91.2%         170         5.7%         13         0.4%         37         1.2%         2.4%         1.0%         42         1.4%         1.4%         1.2%         2.4%         1.3         2.2%         42         1.4%         1.4%         1.4%         1.4%         1.4%         1.4%         1.2%         2.4%         1.3         2.2%         8         1.4%   | Block Group 2                         |  |                          | 7  | 0.8%                      |  | %9.0                                      | F           |  |  | ·                                      |            |   |  |
| 2,712         91.2%         170         5.7%         13         0.4%         78         1.2%         1.0%         42         1.4%         1.4%           601         88.5%         37         6.3%         8         1.4%         1.4         2.4%         1.2%         1.2%         1.2%         1.4%   | THE RESERVE                           | A Physical P | Section 2                | 1 以前的 地震學院   | The state of the state of |  |   |             | Something the second                                 | THE REPORT OF THE PARTY.   | なるない。最初の大の一次                           |            |   |  |
| 601         94.8%         37         6.3%         8         14%         14         2.4%         13         2.2%         8         1.4%           601         94.8%         19         3.0%         2         0.3%         2         0.3%         23         0.5%         5         0.6%         8         0.5%         1.4%         9         1.4%         9         1.4%         9         1.0%         8         0.5%         1.0%         9         0.6%         8         0.5%         1.0%<  | Tract 9607                            | 2,712  | No.                      |  | 5.7%                      |  | 0.4%                                      | 子会          | 7  |  | 1.0%                                   |            |   | 2,974  |
| 601         94.8%         19         3.0%         2         0.3%         3         0.5%         5         0.5%         5         1.4%   | Block Group 1                         | 517  | 700                      |  | 6.3%                      | S. 19812                                 | 1.4%                                      |             |  | Managara   | 2.2%                                   |            |   | 584  |
| 3,651         97.5%         1         22         0.6%         13         0.3%         23         0.6%         38         1.0%         36         1.0%           1,499         98.0%         4         0.3%         2         0.1%         9         0.6%         8         0.5%         16         1.0%           994         97.0%         10         1.0%         5         0.5%         1         0.6%         8         0.5%         16         1.0%           2,070         95.5%         75         3.5%         4         0.2%         7         0.3%         4         0.2%         11         0.5%           1,376         94.1%         74         5.1%         3         0.2%         7         0.0%         2         0.1%         9         0.6%  | Block Group 2                         |  |                          |  | 3.0%                      | 医神经                                      | 0.3%                                      |             |  |  | %8.0                                   |            |   | 634  |
| 3,651         97.5%         22         0.6%         13         0.3%         23         0.6%         38         1.0%         36         1.0%           1,499         98.0%         4         0.3%         2         0.1%         9         0.6%         8         0.5%         16         1.0%           994         97.0%         10         1.0%         5         0.5%         1         0.6%         8         0.5%         16         1.0%           2,070         95.5%         7         3.5%         4         0.2%         7         0.3%         4         0.2%         11         0.5%           1,376         94.1%         74         5.1%         3         0.2%         7         0.0%         2         0.1%         9         0.6%   | · · · · · · · · · · · · · · · · · · · |  | THE RESERVE THE PARTY OF | - 被引起的 一切的   | <b>乙和粉条的原</b> 体           | 一方のない                                    |   | WHICH PARTY |  | 京本   |  | 191213     |   |  |
| 1499         98.0%         4         0.3%         2         0.1%         9         0.6%         8         0.5%         16         1.0%         10%         1.0%   | Tract 9608                            | 3,651  | TO NO.                   |  | %9.0                      |  | 0.3%                                      |             |  |  | %0°1                                   |            |   | 3,745  |
| 994         '97.0%         10         1.0%         5         0.5%         1         0.1%         ** 19         1.9%         15         15%           2,070         95.5%         7         3.5%         4         0.2%         7         0.3%         4         0.2%         11         0.5%           1,376         94.1%         74         5.1%         3         0.2%         0         0.0%         2         0.1%         9         0.6%   | Block Group 2                         |  |                          |  | 0.3%                      |  |   |             |  |  | 0.5%                                   |            |   | 1,530  |
| 2,070         95.5%         75         3.5%         4         0.2%         7         0.3%         4         0.2%         11         0.5%           1,376         94.1%         74         5.1%         3         0.2%         0         0.0%         2         0.1%         9         0.6%   | Block Group 3                         |  |                          | The State of the S | 1:0%                      |  | %5'0                                      |             | 0.1%   | 1000   | 1.9%                                   | 1 200      | THE PROPERTY.                               | 1,025  |
| 2,070 95.5% 75 3.5% 4 0.2% 7 0.3% 4 0.2% 11 0.5% 11 0.   |                                       | differences.   |                          |  | AGREED BY ANDRESS         |  | SOME TOTAL SPECIES                        |             | · 安徽 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | A CAMPA  | 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |            |   |  |
| 1,376 94.1% 74 5.1% 3 0.2% 0 0.0% 2 0.1% 9 0.6%  | Tract 9609                            | HARRIE   |                          |  | 3.5%                      |  |   |             |  |  | 0.2%                                   | 2          |   | 2,167  |
|  | Block Group 2                         |  |                          |  | 5.1%                      | THE REAL                                 | Fé  | 計           |  | The transmitted  | 0.1%                                   |            | The second                                  | 1,462  |

Source: US Census Bureau, 2000 Census

\*Gensus Divisions directly intersecting the defined study area

\*\*Census Divisions surrounding the defined study area

Figure 5 - Population By Race (Blocks in Study Area)

Two or More

One Race

|       |          | <u>.2</u>  | J.            | 9             | . <u>-</u> | ď      | गट     | ाट     | ाट     |        | ) c    | गट     | ाट     | ) (c   | ाट     | ाट     | o I c  | া ল    | गट     | गट     | ্যত    |
|-------|----------|------------|---------------|---------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3,5   |          | Hispanic   | ō             | Latin         | Origin     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Races |          | Pop.       | of Two        | or More       | Races      | 6      | C      | C      | C      | 0      |        | C      | c      | 0      | o m    | 0      | 0      | c      | 0 0    | C      | 0      |
|       |          | Some       | Other         | Race          | Alone      | 0      | C      | c      | 0      | 0      | c      | c      |        | 0      | c      | 0      | C      | c      | 0      |        | ō      |
|       | Native   | Hawaiian & | other Pacific | Islander      | Alone      | 0      | C      | C      | 0      | 0      | C      |        | C      | 0      | 0      | 0      | C      | C      | C      | c      | 0      |
|       |          |            |               | Asian         | Alone      | 2      | 0      | 0      | 0      | 9      | 0      | C      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|       | American | Indian &   | Alaska        | Native        | Alone      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0      | 0      | 4      | 0      | 0      | 0      |
|       |          | Black or   | African       | American      | Alone      | -      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0      | ō      | 0      |
|       |          |            |               | White         | Alone      | 212    | -      | 43     | 0      | 0      | 0      | 0      | 0      | 217    | 225    | 28     | 51     | 91     | 0      | 0      | 59     |
|       |          |            | Pop.          | of One        | Race       | 215    | -      | 43     | 0      | 9      | 0      | 0      | 0      | 217    | 226    | 28     | 51     | 96     | 0      | 0      | 59     |
|       |          |            |               | Totai         | Pop.       | 217    | -      | 43     | 0      | 9      | 0      | 0      | 0      | 226    | 229    | 28     | 51     | 96     | 0      | 0      | 29     |
|       |          |            |               |               | Block      | 1023   | 1029   | 1032   | 1033   | 1034   | 3000   | 3005   | 3012   | 4000   | 1010   | 1027   | 1028   | 1029   | 1034   | 1035   | 1036   |
|       |          |            |               | Census Census | Tract      | 960500 | 960500 | 960500 | 960500 | 960500 | 002096 | 960700 | 002096 | 960700 | 008096 | 008096 | 008096 | 008096 | 960800 | 008096 | 008096 |

Source: US Census Bureau, 2000 Census

## **B.** Population by Poverty Level

The population below the poverty level for Bell County, the City of Middlesboro, and all Census divisions in and around the study area, significantly exceeds national and state averages. The percentage of persons below poverty level in the evaluated Census Tracts and Block Groups displayed in Figure 6 ranges from a low of 13.5% to a high of 42.9%. A majority of the Census divisions contain percentages that are at least twice as high as the national average of 12.4% and significantly greater than the state average of 15.8%.

Figure 6 clearly demonstrates that the project area contains a high percentage of individuals below the poverty level. It should be noted that these percentages are comparable to several surrounding counties located in southeastern Kentucky. This section of the Commonwealth is often classified as economically distressed due to high unemployment rates that are typically attributed to a lack of available employment opportunities. These detrimental factors destabilize the local economy and decrease the quality of life for residents.

The proposed construction of a new route from KY 441 to US 25E in Middlesboro is viewed by many local officials and community members, some of whom are listed in Appendix A, as a project that will potentially further economic growth and development in the area; thereby, improving conditions for the local residents that are currently below poverty level. Following selection of a preferred method of approach for this proposed reconstruction, CVADD staff recommends that a subsequent review of poverty data within affected Census divisions be undertaken to determine if specific concentrations of population below the poverty level exist in the study area; and if so, proactive measures be undertaken to ensure that these groups are not disproportionately affected by the project.

Figu. 6 - Population Below Poverty Level by Age (1995,

| 3%         18,865,180         6.7%         3,287,774         1.2%         33,899,812           2%         350,072         8.6%         67,477         1.2%         33,899,812           4%         5,205         17,8%         843         2.9%         9,105           5%         1,645         16.0%         265         2.6%         2,985           5%         1,645         16.0%         265         2.6%         2,985           5%         257         16.5%         66         4.2%         460           5%         257         16.5%         66         4.2%         460           5%         136         11.8%         55         1.9%         569           5%         136         16.5%         2.3%         1,050         400           5%         136         16.5%         3.1%         763         400           5%         244         16.6%         75         3.1%         763           5%         273         17.2%         3.1%         763           5%         274         4.4%         2.9%         4.0           5%         274         4.4%         2.9%         4.0   |                      | Age 0-17   | % of Total | Age 18-64  | % of Total | Age 65-Over | % of Total | Total Below           | % of Total | 1999 Total  |
|---|----------------------|------------|------------|------------|------------|-------------|------------|-----------------------|------------|-------------|
| 11,746,856         4.3%         18,866,180         6.7%         3,267,774         1.2%         33,899,812           203,547         5.2%         350,072         8.6%         67,477         1.7%         621,096           3,057         10,4%         5,206         1,78%         843         2.9%         9,105           975         10,4%         1,645         16.0%         265         2.9%         2,105           188         7.7%         356         14.6%         94         3.8%         638           137         8.8%         257         16.5%         94         3.8%         638           146         5.5%         350         11.8%         56         4.2%         460           164         5.5%         350         11.8%         56         4.2%         460           164         5.5%         350         11.8%         56         4.2%         460           164         5.5%         36         16.5%         21         19%         569           165         16.6%         11.8%         56         19%         400           165         16.6%         16.5%         21         19%         400   |                      |            | Pop.       |            | Pop.       |             | Pop.       | Poverty Level         | Pop.       | Pop.        |
| 203,547         5.2%         350,072         8.6%         67,477         1.7%         621,096           3,057         10.4%         5,205         17.8%         843         2.9%         9,105           1,047         1,645         16.0%         266         2.6%         2,085           1,187         8.8%         257         16.5%         66         4.2%         638           1,137         8.8%         257         16.5%         66         4.2%         460           1,137         8.8%         257         16.5%         66         4.2%         460           1,137         8.8%         257         16.5%         66         4.2%         460           1,137         8.8%         257         11.8%         56         1.9%         460           1,158         10.0%         10.0%         10.0%         10.0%         10.0%         10.0%           1,158         2.8%         2.3%         1,050         10.0%         10.0%         10.0%           1,158         2.8%         2.3%         1,050         10.0%         10.0%         10.0%         10.0%           1,158         2.8%         2.3%         1,050         10.0   | <b>United States</b> | 11,746,858 |            | 18,865,180 | %2'9       | 3,287,774   | 1          |                       | 12.4%      | 273,882,232 |
| 3,057         10,4%         5,205         17.8%         843         2.9%         9,105           975         9,5%         1,645         16.0%         265         2.6%         2,885           188         7,7%         356         14.6%         94         3.8%         638           197         8.8%         257         16.5%         66         4.2%         460           16         15         3.8%         257         16.5%         66         4.2%         460           16         1.5%         3.5%         1.8%         66         4.2%         460           16         1.5%         1.1.5%         1.1.8%         5.1         1.2%         4.00           16         1.5%         1.1.5%   | Kentucky             | 203,547    |            | 350,072    | 8.6%       |             | 1.7%       |                       | 15.8%      | 3.927.047   |
| 975         9.5%         1,645         16.0%         265         2.6%         2,885           188         7.7%         356         14.6%         69         4         2.8%         6.38           137         8.8%         257         16.5%         69         4         2.8%         6.38           164         5.5%         350         11.8%         55         1.9%         569         2.26           164         5.5%         350         11.8%         55         1.9%         569         2.26           164         5.5%         36         11.8%         55         1.9%         569         2.26           165         1.5%         244         7.6%         2.3%         1.050         4.0           156         12.5%         244         19.6%         0         0.0%         4.0           156         1.5%         244         19.6%         7.6         3.1         2.6           167         1.5%         2.4%         2.4%         2.4%         2.6           168         1.5%         2.4%         2.4%         2.6           169         2.8%         1.6%         2.4%         2.6   | Bell County          | 3,057      |            | 5,205      | 17.8%      |             |            |                       | •          | 29,303      |
| 188         7.7%         356         14.6%         94         3.8%         638           137         8.8%         257         16.5%         66         4.2%         460           164         5.5%         350         11.8%         55         1.9%         569           165         1.5%         350         11.8%         55         1.9%         569           165         1.5%         364         7.0%         84         7.6%         21         1.9%         569           165         1.5%         364         1.0.0%         40         0.0%         1.050         1.050           166         1.5%         244         4.0%         4.0%         1.050         1.050           167         1.2%         244         1.0%         1.0%         1.050           168         1.2%         244         1.0%         1.0%         1.050           168         1.2%         244         1.0%         2.0%         1.050           168         1.2%         2.1         2.2%         1.0%         2.2%           168         2.5%         2.1         2.2%         2.4%         2.4%         2.2% <th< td=""><td>Middlesboro</td><td>975</td><td></td><td>1,645</td><td>16.0%</td><td>265</td><td></td><td></td><td>28.1%</td><td>10,251</td></th<>                  | Middlesboro          | 975        |            | 1,645      | 16.0%      | 265         |            |                       | 28.1%      | 10,251      |
| 137         8.8%         257         16.5%         66         4.2%         460           164         5.5%         350         11.8%         55         1.9%         569           1 72         11.5%         136         21.8%         18         2.9%         226           1 45         4.0%         84         7.6%         21         1.9%         569           1 5         10.0%         603         16.5%         83         2.3%         1,050           1 5         12.5%         244         19.6%         0         0.0%         400           1 5         12.5%         273         17.2%         33         2.4%         467           1 5         1.5%         273         17.2%         38         2.4%         467           1 5         1.5%         1.3%         7.4%         2.96           1 6         2.5%         3.5%         1.050           1 6         2.5%         3.5%         1.16%         5.69           1 6         2.5%         3.5%         1.050           1 8         3.2%         5.4%         4.4%         2.6%           1 8         3.2%         5.4%         4.  | Tract 9605           | 188        |            | 356        | 14 6%      | 94          |            |                       | 2R 10%     | 2 AAE       |
| 164         5.5%         350         11.8%         55         1.9%         569           164         5.5%         350         11.8%         55         1.9%         569           165         4.0%         84         7.6%         21         1.9%         569           166         4.0%         603         16.5%         83         2.3%         1,050           166         12.5%         244         19.6%         0         0.0%         400           167         166         75         3.1%         763         400           168         15.1%         404         16.6%         75         3.1%         763           168         15.1%         4.4%         2.9%         4.67         4.67         4.67           168         16.5%         37         4.4%         2.96         4.67         4.67         4.67           168         16.5%         35         11.8%         5.5         1.050         4.67         4.67         4.67         4.67           169         16.6%         16.6%         16.6%         16.6%         16.6%         16.6%         16.6%         16.6%         16.6%         16.6%         16.6% <td>Block Group 1</td> <td>137</td> <td></td> <td>257</td> <td>16.5%</td> <td>99</td> <td></td> <td></td> <td></td> <td>1,561</td> | Block Group 1        | 137        |            | 257        | 16.5%      | 99          |            |                       |            | 1,561       |
| 164         5.5%         350         11.8%         55         1.9%         569           164         5.5%         136         21.8%         18         2.9%         569           1 45         4.0%         84         7.6%         21         1.9%         569           2 4         4.0%         603         16.5%         83         2.3%         1,050           1 56         12.5%         244         19.6%         0         0.0%         400           1 56         9.8%         27.3         17.2%         38         2.4%         467           1 56         9.8%         27.3         17.2%         38         2.4%         467           1 56         9.8%         27.3         17.2%         38         2.4%         467           1 56         9.8%         27.3         17.2%         38         2.4%         467           1 6         5.5%         3.2%         1.6%         5.69         6.8         6.8           1 6         5.5%         5.4         4.5%         2.8%         2.9%           1 6         5.5%         5.4         4.5%         3.2           2 7         4.4%         4.5%  |                      |            |            |            |            |             |            |                       |            |             |
| 4         72         11.5%         136         21.8%         18         2.9%         226           4         4.0%         84         7.6%         21         1.9%         150           364         4.0%         84         7.6%         21         1.9%         150           156         10.0%         603         16.5%         83         2.3%         1,050           284         10.0%         404         16.6%         75         3.1%         400           156         9.8%         273         17.2%         38         2.4%         467           156         9.8%         273         17.2%         31         44%         467           157         3.2%         14         3.2%         14         44%         569           16         5.5%         3.2%         1.050         3.2%         1.050         4.4%         569           16         5.5%         5.5%         5.4%         4.4%         5.6%         6.6%         1.050           16         5.5%         5.5%         5.4%         4.5%         5.6%         1.050           16         5.1%         6.2%         6.0%         6.0%  | Tract 9607           | 164        |            | 350        | 11.8%      | 55          | 1.9%       |                       | 19.2%      | 2,962       |
| 45         4.0%         84         7.6%         21         1.9%         150           364         10.0%         603         16.5%         83         2.3%         1,050           156         12.5%         244         19.6%         0         0.0%         400           156         12.5%         244         19.6%         75         3.1%         763           156         9.8%         27.3         17.2%         38         2.4%         467           156         9.8%         27.3         17.2%         31         447         296           156         15.1%         131         15.5%         37         4.4%         296           164         5.5%         350         11.8%         55         1.9%         569           16         5.5%         4.4%         76         11.6%         0.0%         105           16         5.5%         3.2%         1.6%         5.8%         88           2.9         4.4%         76         11.6%         0.0%         105           18         5.1%         4.4%         2.8%         105           2.9         4.4%         2.8%         1.6%   | Block Group 3        | 72         |            | 136        | 21.8%      | 18          |            |                       |            | 625         |
| 364         10.0%         603         16.5%         83         2.3%         1,050           156         12.5%         244         19.6%         0         0.0%         400           284         11.7%         404         16.6%         75         3.1%         763           156         9.8%         273         17.2%         38         2.4%         467           164         5.5%         350         11.8%         55         1.9%         569           164         5.5%         350         11.8%         55         1.9%         88           29         4.4%         76         11.6%         0         0.0%         10.5           364         10.0%         603         16.5%         41         4.5%         326           76         5.1%         208         14.0%         2.8%         10.5           76         5.1%         42         2.8%         1.05           76         5.1%         42         2.8%         1.05           76         5.1%         42         2.8%         3.24           76         5.1%         41         4.5%         324           76         1   | Block Group 4        | 45         |            | 84         | %9'.       | 21          | 1.9%       |                       |            | 1,112       |
| 364         10.0%         603         16.5%         83         2.3%         1,050           156         12.5%         244         19.6%         0         0.0%         400           284         11.7%         404         16.6%         75         3.1%         763           156         9.8%         27.3         17.2%         38         2.4%         467           158         15.1%         131         15.5%         37         4.4%         296           16         5.5%         350         11.8%         55         1.9%         569           16         5.5%         3.2%         4.4%         5.69         88         2.4%         467           16         5.5%         3.2%         11.6%         0         0.0%         1.05         1.05           16         5.5%         5.4         9.5%         16         2.8%         88         1.05           16         5.1%         5.1%         4.2%         2.8%         88         1.05           16         5.1%         6.0%         1.0%         1.0%         1.0%         1.0%           16         5.1%         4.2%         2.8%         83   | T                    | 100        |            |            |            |             |            | -0.001                |            |             |
| 156         12.5%         244         19.6%         0         0.0%         400           284         11.7%         404         16.6%         75         3.1%         763           156         9.8%         273         17.2%         38         2.4%         467           158         15.1%         131         15.5%         37         4.4%         296           164         5.5%         350         11.8%         56         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0.0%         1.05           29         4.4%         76         11.6%         0.0%         1.05           29         4.4%         76         11.6%         0.0%         1.05           364         10.0%         603         16.5%         41         4.5%         326           76         5.1%         40.7%         22.1%         41         4.5%         324           83         2.3%         4.4%         2.8%         326           132         14.4%         4.5%         324         32 </td <td>Iract 9008</td> <td>364</td> <td></td> <td>603</td> <td>16.5%</td> <td>83</td> <td>2.3%</td> <td></td> <td>28.8%</td> <td>3,651</td>                        | Iract 9008           | 364        |            | 603        | 16.5%      | 83          | 2.3%       |                       | 28.8%      | 3,651       |
| 284         11.7%         404         16.6%         75         3.1%         763           156         9.8%         273         17.2%         38         2.4%         467           128         15.1%         131         15.5%         37         4.4%         296           164         5.5%         350         11.8%         55         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0.0%         105           29         1.0%         603         16.5%         83         2.3%         1,050           20         2.1%         42         2.8%         326         2.4%           20         1.4.6%         42         2.8%         326           20         1.4.6%         42         2.8%         326           20         1.4.6%         42         2.8%         326           20         1.4.6%         42         2.8%         326           20         1.4.6%         42         2.8%         324           20         1.4.4%         4.5%         324  | Block Group 1        | 156        |            | 244        | 19.6%      | 0           | %0.0       |                       | 32.1%      | 1,247       |
| 284         11.7%         404         16.6%         75         3.1%         763           156         9.8%         273         17.2%         38         2.4%         467           128         15.1%         131         15.5%         37         4.4%         467           164         5.5%         350         11.8%         55         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0         0.0%         105           29         4.4%         76         11.6%         0         0.0%         105           29         4.4%         76         11.6%         0         0.0%         105           29         4.4%         76         14.6%         83         2.3%         1,050           20         5.1%         20         14.0%         42         2.8%         324           20         20         22.1%         41         4.5%         324           20         14.8%         22.1%         1.7%         647           20         14.8%         22.1%         1.8% <td></td>  |                      |            |            |            |            |             |            |                       |            |             |
| 156         9.8%         273         17.2%         38         2.4%         467           128         15.1%         131         15.5%         37         4.4%         296           164         5.5%         350         11.8%         55         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0         0.0%         105           20         4.4%         76         11.6%         83         2.3%         1,050           20         5.1%         20         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           20         20         22.1%         41         4.5%         324           20         14.8%         22.1%         41         4.5%         534   | Tract 9603           | 284        |            | 404        | 16.6%      | 75          | 3.1%       | 763                   | 31.4%      | 2,433       |
| 128         15.1%         131         15.5%         37         4.4%         296           164         5.5%         350         11.8%         55         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0         0.0%         105           364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         22.1%         41         4.5%         324           186         14.8%         329         26.3%         22         1.8%         537   | Block Group 1        | 156        |            | 273        | 17.2%      | 38          | 2.4%       |                       |            | 1.586       |
| 164         5.5%         350         11.8%         55         1.9%         569           18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0         0.0%         105           364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         41.8%         647           186         14.8%         329         26.3%         18%         537   | Block Group 2        | 128        |            | 131        | 15.5%      | 37          | 4.4%       | 296                   |            | 847         |
| 164       5.5%       350       11.8%       55       1.9%       569         18       3.2%       54       9.5%       16       2.8%       88         29       4.4%       76       11.6%       0       0.0%       105         364       10.0%       603       16.5%       83       2.3%       1,050         76       5.1%       208       14.0%       42       2.8%       326         132       14.4%       151       16.5%       41       4.5%       324         208       11.3%       407       22.1%       32       1.7%       647         186       14.8%       329       26.3%       26.3%       537   |                      |            |            |            |            |             |            |                       |            |             |
| 18         3.2%         54         9.5%         16         2.8%         88           29         4.4%         76         11.6%         0         0.0%         105           364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         6.3%         6.3%         647           186         14.8%         329         26.3%         1.7%         647         537   | Fract 9607           | 164        |            | 350        | 11.8%      | 55          | 1.9%       | 569                   | 19.2%      | 2.962       |
| 29         4.4%         76         11.6%         0         0.0%         105           364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   | Block Group 1        | 18         |            | 54         | 9.5%       | 16          | 2.8%       | 88                    |            | 571         |
| 364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   | Biock Group 2        | 29         |            | 9/         | 11.6%      | 0           | %0:0       | 105                   | 16.1%      | 654         |
| 364         10.0%         603         16.5%         83         2.3%         1,050           76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   |                      |            |            |            |            |             |            |                       |            |             |
| 76         5.1%         208         14.0%         42         2.8%         326           132         14.4%         151         16.5%         41         4.5%         324           208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   | Tract 9608           | 364        |            | 603        | 16.5%      | 83          | 2.3%       | 1,050                 | 28.8%      | 3,651       |
| 132         14.4%         151         16.5%         41         4.5%         324         7           208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   | Block Group 2        | 92         | 5.1%       | 208        | 14.0%      | 42          | 2.8%       | 326                   | 21.9%      | 1.490       |
| 208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   | Block Group 3        | 132        | 14.4%      | 151        | 16.5%      | 41          | 4.5%       | 324                   | 35.5%      | 914         |
| 208         11.3%         407         22.1%         32         1.7%         647           186         14.8%         329         26.3%         22         1.8%         537   |                      |            |            |            |            |             |            | STATE OF THE STATE OF |            |             |
| 186 14.8% 329 26.3% 22 1.8% 537   | Fract 9609           | 208        |            | 407        | 22.1%      | 32          | 1.7%       | 647                   | 35.1%      | 1.842       |
|   | Block Group 2        | 186        | 14.8%      | 329        | 26.3%      | 22          | 1.8%       | 537                   | 42.9%      | 1,253       |

Source: US Census Bureau, 2000 Census
\*Census Divisions directly intersecting the defined study area
\*\*Census Divisions surrounding the defined study area

## C. Population by Age

2000 Census data indicates that Bell County and the City of Middlesboro encompass a population of persons age sixty-two and over that surpasses the state and national averages, albeit slightly. Figure 7 illustrates that the percentages of the total population of persons age 62 and over in the study area ranges from a low of 11.5% to a high of 24.7%. Following a review of census data and subsequent discussions with the Bell County Senior Citizens Center Director, Bell County Judge Executive, and Mayor of Middlesboro, a determination was made that no significant concentrations of persons age 62 and over are located in the study area; therefore, it is anticipated that the implementation of this project would not have a disproportionate effect on the population of persons age 62 and over residing in and/or around the defined study area.

| United States         72,293,812           Kentucky         994,818           Bell County         7,329           Middlesboro         2,451           Tract 9605         642           Block Group 1         442           Block Group 3         185           Block Group 1         337           Tract 9603         964           Block Group 1         388           Block Group 2         583           Block Group 2         195           Tract 9605         642           Block Group 2         200           Tract 9605         642           Block Group 2         200           Tract 9605         642           Block Group 2         200           Tract 9605         642           Block Group 2         642           Block Group 2         642           Block Group 3         642           Block Group 4         864           Block Group 5         642           Block Group 6         642           Block Group 7         642           Block Group 7         642 | 25.7%<br>24.4%<br>24.4%<br>23.6%<br>28.3%<br>23.8% | 174,136,341<br>2,542,158<br>17,778 | Population<br>61.9% | 34 001 753 | Population | 281 421 906 |
|---|--|------------------------------------|---------------------|------------|------------|-------------|
| 72.23   |  | 174,136,341<br>2,542,158<br>17,778 | 61.9%               | 34 991 753 | 12.4%      | 281 421 90E |
| ŎĬ,   |  | 2,542,158<br>17,778                |                     | 50.1.00.10 | , i        | 2001-14-01  |
|   |  | 17,778                             | 62.9%               | 504,793    | 12.5%      | 4,041,769   |
|   |  |                                    | 59.1%               | 4,953      | 16.5%      | 30.060      |
|   | 28.3%  | 5,872                              | 26.5%               | 2,061      |            | 10,384      |
| 7 7 8 8 8 7 2 2 2 2   | 23.8%  | 1,419                              | 58.4%               | 367        | 15.1%      | 2,428       |
| 7 2 0 0 0 0 0 0 0   | 23.8%  | 068                                | 22.0%               | 203        | 13.0%      | 1,561       |
| 1 2 6 2 2 1   | 708 30%  | 1,627                              | 54.7%               | 639        | 21.5%      | 2.974       |
|   | 0/0:03   | 366                                | 26.0%               | 103        | 15.7%      | 654         |
| 6 6 7 7 7   | 21.5%  | 593                                | 53.8%               | 272        | 24.7%      | 1,102       |
| 1 2 2 7   | 25.7%  | 2,179                              | 58.2%               | 602        | 16.1%      | 3.745       |
| 7 2 2 2   | 28.3%  | 716                                | 60.2%               | 137        | 11.5%      | 1,190       |
| 2 2 2 2   | 24.3%  | 1.450                              | %809                | 374        | 15.4%      | 2 404       |
| 2 7   | 24.5%  | 965                                | 61.0%               | 229        | 14.5%      | 1.582       |
| 2 2 6   | 23.7%  | 485                                | 29.0%               | 142        | 17.3%      | 822         |
| 2 7   | 26.4%  | 1419                               | 58.4%               | 367        | 15.1%      | 867 6       |
|   | 22.4%  | 529                                | 59.2%               | 164        | 18.4%      | 893         |
|   |  |                                    |                     |            |            |             |
|   | 23.8%  | 1,627                              | 54.7%               | 689        | 21.5%      | 2,974       |
| Block Group 1 160   | 27.4%  | 315                                | 23.9%               | 109        | 18.7%      | 584         |
| Block Group 2 126   | 19.9%  | 353                                | 25.7%               | 155        | 24.4%      | 634         |
| Tract 9608 964  | 25.7%  | 2,179                              | 58.2%               | 602        | 719.1%     | 3.745       |
|   | 25.9%  | 937                                | 61.2%               | 197        | 12.9%      | 1.530       |
| Block Group 3 231   | 22.5%  | 526                                | 51.3%               | 268        | 26.1%      | 1,025       |
| Tract 9609 497  | 22.9%  | 1.374                              | 63.4%               | 296        | 13.7%      | 2 167       |
| Block Group 2 298   | 20.4%  | 939                                | 64.2%               | 225        | 15.4%      | 1 469       |

Source: US Census Bureau, 2000 Census
\*\*Census Divisions directly intersecting the defined study area
\*\*Census Divisions surrounding the defined study area

#### VII. CONCLUSION

Following a comprehensive review of demographic data from the U.S. Census Bureau, discussions with local officials regarding community features, and field observations, the Cumberland Valley Area Development District staff has concluded that a defined Environmental Justice community does not exist within the study area for the proposed construction of a new route from KY 441 to US 25E in Middlesboro.

Analysis of racial composition data resulted in two Census Block Groups being identified in and around the study area that contained a percentage of minorities exceeding national and/or state averages. Following a comprehensive review of Census Block data and discussions with local officials, no minority concentrations were discovered within or surrounding the immediate study area.

The percentages of persons in the study area below the poverty level are quite high; however, discussions with local officials and a field review led to the conclusion that no concentration of individuals below the poverty level will be disproportionately affected by this project. Community leaders have expressed support for the proposed project and anticipate that it will provide an economic benefit by improving access and reducing congestion.

Age analysis indicates that the distribution of elderly residents in the study area slightly exceeds the national and state averages, but no specific concentrations of elderly residents were discovered during the compilation of this report.

CVADD staff will continue to monitor the progress of this project and reevaluate the Environmental Justice Review to document any demographic and/or socioeconomic changes that may occur in and around the study area throughout the development of the project.

# APPENDIX 1

PLANNING STUDY CONTACT LIST

#### PLANNING STUDY CONTACT LIST

Hon. William Kelley Bell County Judge Executive P.O. Box 339 Pineville, KY 40977

Mr. James Pursifull Public Safety Officer City of Middlesboro P.O. Box 756 Middlesboro, KY 40965

Mr. Clay McKnight Cumberland Valley ADD P.O. Box 1740 London, KY 40743 Mayor Ben Hickman City of Middlesboro P.O. Box 756 Middlesboro, KY 40965

Mrs. Teresa Massengill, City Clerk City of Middlesboro P.O. Box 756 Middlesboro, KY 40965 Mrs. Betty Jordan, Director Bell County Senior Citizens Center P.O. Box 64 Middlesboro, KY 40965

Mrs. Bertha Partin Cumberland Valley ADD P.O. Box 1740 London, KY 40743

# APPENDIX 2

METHODOLOGY FOR ASSESSING ENVIRONMENTAL JUSTICE CONCERNS

# Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies

Updated: February 1, 2002

The demographics of the affected area should be defined using U.S. Census data (Census tracts and block groups) and the percentages for minorities, low-income, elderly, or disabled populations should be compared to those for the following:

- Other nearby Census tracts and block groups,
- The county as a whole,
- The entire state, and
- The United States.

Information from PVA offices, social service agencies, local health organizations, local public agencies, and community action agencies can be used to supplement the Census data. Specifically, we are interested in obtaining the following information:

- Identification of community leaders or other contacts who may be able to represent these population groups and through which coordination efforts can be made.
- Comparison of the Census tracts and block groups encompassing the project area to other nearby Census tracts and block groups, county, state, and United States percentages.
- Locations of specific or identified minority, low-income, elderly, or disabled population groups within or near the project area. This may require some field reviews and/or discussions with knowledgeable persons to identify locations of public housing, minority communities, ethnic communities, etc., to verify Census data or identify changes that may have occurred since the last Census. Examples would be changes due to new residential developments in the area or increases in Asian and/or Hispanic populations.
- Concentrations or communities that share a common religious, cultural, ethnic, or other background, e.g., Amish communities.
- Communities or neighborhoods that exhibit a high degree of community cohesion or interaction and the ability to mobilize community actions at the start of community involvement.
- Concentrations of common employment, religious centers, and/or educational institutions with members within walking distance of facilities.
- Potential effects, both positive and negative, of the project on the affected groups as compared to the non-target groups. This may include, but are not limited to:
  - 1. Access to services, employment or transportation.
  - 2. Displacement of persons, businesses, farms, or non-profit organizations.
  - 3. Disruption of community cohesion or vitality.
  - 4. Effects to human health and/or safety.
- Possible methods to minimize or avoid impacts on the target population groups.

Methodology for Assessing Potential Environmental Justice Concerns for KYTC Planning Studies
Page 2

If percentages of these populations are elevated within the project area, it should be brought to the attention of the Division of Planning immediately so that coordination with affected populations may be conducted to determine the affected population's concerns and comments on the project. Also, with this effort, representatives of minority, elderly, low-income, or disabled populations should be identified so that, together, we can build a partnership for the region that may be incorporated into other projects. Also, we hope to build a Commonwealth-wide database of contacts. We are available to participate in any meetings with these affected populations or with their community leaders or representatives.

In identifying communities, agencies may consider as a community either a group of individuals living in geographic proximity to one another, or a geographically dispersed/transient set of individuals (such as migrant workers or Native Americans), where either type of group experiences common conditions of environmental exposure or effect. The selection of the appropriate unit of analysis may be a governing body's jurisdiction, a neighborhood, census tract, or other similar unit that is to be chosen so as not to artificially dilute or inflate the affected population. A target population also exists if there is (1) more than one minority or other group present and (2) the percentages, as calculated by aggregating all minority persons, exceed that of the general population or other appropriate unit of geographic analysis.

Maps should be included that show the Census tracts and block groups included in the analysis as well as the relation of the project area to those Census tracts and block groups.